

Broadley-James pH Sensors for Pulp & Paper Applications are:

Rugged

Broadley-James sensors have been used and tested for more than a decade in the pulp and paper industry under conditions involving strong caustics, high temperatures, and harsh industrial environments. The ST977, ST864, and ST951 are rugged, sealed sensor assemblies designed specifically for in-line applications in pulp and paper mills and related chloralkali plants.

Long-lasting

The solid state reference cell features the unique patented IonTrap™ design for extended service life in the most severe applications. The body is molded from chemical-resistant, conductive Ryton® or Kynar® and the reference junction is porous Teflon®. A built-in Pt 1000 temperature compensator is standard in all sensors, as is the integral solution ground connection in the ST977 and ST951.

Reliable

A good control system provides repeatability to the paper mill operator. It is their knowledge that produces quality paper. The reliable sensor, however, allows them to consistently do this over and over again, with confidence. The DynaProbe's unique design offers distinct advantages which allow for a longer lifespan with less maintenance.

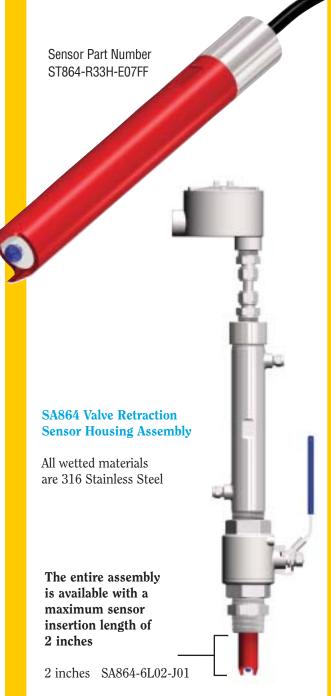
Compatible

Broadley-James' industry standard designs are compatible with most existing hardware in the pulp and paper industry. In addition, the pH sensors can be used with the majority of electronics and controllers on the market.



Extreme Pressure Assembly

This pH sensor and housing assembly is designed specifically for pulp stock applications involving extreme pressures up to 300 psig, elevated temperatures up to $140\,^{\circ}$ C, and elevated pH levels. A Pt 1000 temperature compensator is built in to the pH sensor.



Twist-Lock Assembly

The pH sensor assembly shown below is used throughout the paper mill where a hot-tap assembly is not needed. Ease of removal for calibration or replacement makes this pH sensor the preferred choice over threaded designs. A built-in Pt 1000 temperature compensator is standard as is the integral solution ground connection.

Typical applications include pH control and monitoring in bypass process lines or water treatment reservoirs.



Note:

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All DynaProbes come standard with a built-in Pt 1000 temperature compensator. In addition, other temperature compensators are available on these sensors, including 3K and Pt 100.

standard 1" fitting.

Specifications

Part Number:

ST977-R33H-N07FF High Pressure

pH Range $\dots 0-14$ pH Temperature Range $\dots 0-120$ °C

Pressure Rating $\dots 100 \text{ psig } @ 90^{\circ}\text{C}$

Reference System Ag/AgCl

Glass Membrane Type HT-3, Low Sodium

Ion error

Wetted Materials Ryton®, Teflon®, Glass

& Viton® O-rings

Part Number:

ST864-R33H-E07FF Extreme Pressure

pH Range 0–14 pH Temperature Range 0–140 $^{\circ}$ C

Pressure Rating300 psig @ 140°C

Reference System Ag/AgCl

Glass Membrane Type HT-3, Low Sodium

Ion error

Wetted Materials Kynar[®], Teflon[®], Glass

& 316 Stainless Steel

Part Number:

ST951-R33H-N07FF Twist-Lock

pH Range 0–14 pH Temperature Range 0–120°C

Pressure Rating 50 psig @ 120°C

Reference System Ag/AgCl

Glass Membrane Type HT-3, Low Sodium

Ion error

Wetted Materials Ryton®, Teflon®, Glass

& Viton® O-rings



Broadley-James Corporation—U.S. 19 Thomas, Irvine, California 92618 U.S. Website: www.broadleyjames.com

BEP Bestobell Ltd. - Bestobell Aquatronix

2880 Argentia Road, Unit 3

Mississauga, ON, L5N 7X8, Canada

Tel: 1.800.668.1953 Fax: (902) 826.1778

E-Mail: salesdesk@bestobell.com Website: www.bestobell.com

